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MANTIS Entity Transformers

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AD/Advantage® MANTIS Entity Transformers

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We welcome your comments

We encourage critiques concerning the technical content and organization of this manual. Please take the survey provided with the online documentation at your convenience.

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About this book

Using this document

MANTIS is an application development system that consists of design facilities (e.g., screens and files) and a programming language. This manual describes MANTIS Entity Transformers.

Document organization

The information in this manual is organized as follows:

Chapter 1—Introduction to MANTIS Entity Transformers
Describes MANTIS Entity Transformers and how to navigate through the system.

Chapter 2—Using transformer functions
Describes functions you can perform on entities, including transforming, merging, uploading, deleting, and performing maintenance.

Chapter 3—Accessing CASE entities
Discusses the CASE entities: elements, text entities, and data.

Chapter 4—Accessing MANTIS and SUPRA entities
Describes how to access and view MANTIS and SUPRA entities through MANTIS Entity Transformers.

Appendix A—Messages
Contains an alphabetical listing of the messages you may receive while using MANTIS Entity Transformers.

Appendix B—Field descriptions
Alphabetically lists and describes each of the fields that appear on CASE scratchpad screens.

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Revisions to this manual

The following changes have been made:

◆ All screen illustrations have been updated.

◆ Additions have been made to the table under "Possible
   transformations" on page 27.

◆ TOTAL VIEW has been added to the list of new entity types in
   "Merging source entities into a target entity" starting on page 33 and
   in "Viewing MANTIS and SUPRA entity attributes" on page 57.

◆ Messages are no longer listed in this manual. All error messages
   can be found in *MANTIS Messages and Codes, OS/390, VSE/ESA*,
   P39-5004.

◆ The following field descriptions have been added to the list under
   "Field descriptions" starting on page 67.

Conventions

The following table describes the conventions used in this document series:

Convention	Description	Example

`Constant width type`	Represents screen images and segments of code.	`Screen Design Facility`
		`GET NAME LAST`
		`INSERT ADDRESS`

Yellow-highlighted, red code or screen text	Indicates an emphasized section of code or portion of a screen.	`00010 ENTRY COMPOUND`
		`00020 .SHOW"WHAT IS THE`
		`  CAPITAL AMOUNT?"`
		`00030 .OBTAIN INVESTMENT`
		`00040 EXIT`

Slashed b (ƀ)	Indicates a space (blank). The example indicates that a password can have a trailing blank.	`WRITEPASSƀ`
Brackets [ ]	Indicate optional selection of parameters. (Do not attempt to enter brackets or to stack parameters.) Brackets indicate one of the following situations.	
	A single item enclosed by brackets indicates that the item is optional and can be omitted. The example indicates that you can optionally enter a program name.	`COMPOSE [`*`program-name`*`]`
	Stacked items enclosed by brackets represent optional alternatives, one of which can be selected. The example indicates that you can optionally enter NEXT, PRIOR, FIRST, or LAST. (NEXT is underlined to indicate that it is the default.)	**<u>NEXT</u>** **PRIOR** **FIRST** **LAST**

Convention	Description	Example
Braces { }	Indicate selection of parameters. (Do not attempt to enter braces or to stack parameters.) Braces surrounding stacked items represent alternatives, one of which you must select. The example indicates that you must enter FIRST, LAST, or a value for *begin*.	$\left\{\begin{array}{l}\textbf{FIRST}\\ \textbf{\textit{begin}}\\ \textbf{LAST}\end{array}\right\}$
Underlining (In syntax)	Indicates the default value supplied when you omit a parameter. The example indicates that if you do not specify ON, OFF, or a row and column destination, the system defaults to ON.	$\textbf{SCROLL}\left[\begin{array}{l}\underline{\textbf{ON}}\\ \textbf{OFF}\\ [\textit{row}]\,[,\textit{col}]\end{array}\right]$
	Underlining also indicates an allowable abbreviation or the shortest truncation allowed. The example indicates that you can enter either PRO or PROTECTED.	$\underline{\text{PRO}}\text{TECTED}$
Ellipsis points...	Indicate that the preceding item can be repeated. The example indicates that you can enter (A), (A,B), (A,B,C), or some other argument in the same pattern.	`(argument,...)`

Convention	Description	Example
UPPERCASE	Indicates MANTIS reserved words. You must enter them exactly as they appear. The example indicates that you must enter CONVERSE exactly as it appears.	`CONVERSE name`
Italics	Indicate variables you replace with a value, a column name, a file name, and so on. The example indicates that you can supply a name for the program.	`COMPOSE [program-name]`
Punctuation marks	Indicate required syntax that you must code exactly as presented. ( ) parentheses . period , comma : colon ; semicolon ' single quotation mark " " double quotation marks	$[\textbf{LET}]\, v \begin{bmatrix}(i)\\(i,j)\end{bmatrix} [\textbf{ROUNDED}(n)] = e1\,[,e2,e3\ldots]$

MANTIS documentation series

MANTIS is an application development system designed to increase productivity in all areas of application development, from initial design through production and maintenance. MANTIS is part of AD/Advantage, which offers additional tools for application development. Listed below are the manuals offered with MANTIS in the IBM® mainframe environment, organized by task. You may not have all the manuals listed here.

MASTER User tasks

♦ *MANTIS Installation, Startup, and Configuration, MVS/ESA, OS/390,* P39-5018

♦ *MANTIS Installation, Startup, and Configuration, VSE/ESA,* P39-5019

♦ *MANTIS Administration, OS/390, VSE/ESA*, P39-5005

♦ *MANTIS Messages and Codes, OS/390, VSE/ESA*, P39-5004*

♦ *MANTIS Administration Tutorial, OS/390, VSE/ESA,* P39-5027

♦ *MANTIS XREF Administration, OS/390, VSE/ESA*, P39-0012

General use

♦ *MANTIS Quick Reference, OS/390, VSE/ESA*, P39-5003

♦ *MANTIS Facilities, OS/390, VSE/ESA*, P39-5001

♦ *MANTIS Language, OS/390, VSE/ESA*, P39-5002

♦ *MANTIS Program Design and Editing, OS/390, VSE/ESA*, P39-5013

♦ *MANTIS Messages and Codes, OS/390, VSE/ESA*, P39-5004*

♦ *AD/Advantage Programming*, P39-7001

♦ *MANTIS DB2 Programming, OS/390, VSE/ESA*, P39-5028

- ♦ *MANTIS SUPRA SQL Programming, OS/390, VSE/ESA*, P39-3105

- ♦ *MANTIS XREF, OS/390, VSE/ESA, OpenVMS*, P39-0011

- ♦ *MANTIS Entity Transformers*, P39-0013

- ♦ *MANTIS DL/I Programming, OS/390, VSE/ESA*, P39-5008

- ♦ *MANTIS SAP Facility, OS/390, VSE/ESA*, P39-7000

- ♦ *MANTIS WebSphere MQ Programming*, P39-1365

- ♦ *MANTIS Application Development Tutorial, OS/390, VSE/ESA*, P39-5026
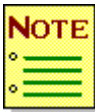
NOTE	Manuals marked with an asterisk (*) are listed twice because you use them for different tasks.

Educational material

AD/Advantage and MANTIS educational material is available from your regional Cincom education department.

1

Introduction to MANTIS Entity Transformers

MANTIS Entity Transformers is an add-on option to MANTIS that enables you to convert, merge, and view MANTIS entities. With MANTIS Entity Transformers, you can:

♦ Convert (transform) a MANTIS entity of one type, such as a file, into a MANTIS entity of another type, such as a screen or interface.

♦ Combine (merge) multiple entities into a single entity of the same or another entity type.

♦ Temporarily store text, element definitions, and data views.

♦ Perform file maintenance (inserting, updating, deleting, and displaying records) on internal and external files, interfaces, and RDM Views.

Because MANTIS Entity Transformers eliminates the need to manually duplicate entity definitions, you save time and are ensured of consistent field definitions across multiple entities.

An entity used as input into a transformation or a merge with another entity acts as a *source entity*. The end result of a transformation or merge is the *target entity*. A transformation translates one source entity type into a single new target entity type, creating a new entity. In a merge, multiple source entities are combined into a single target entity.

MANTIS Entity Transformers use three kinds of entities as sources and targets: MANTIS entities, CASE entities, and SUPRA entities.

MANTIS entities

The following MANTIS entities can be transformed and merged:

♦ Screens

♦ Programs

♦ Prompters

♦ Internal (MANTIS) files

♦ External file views

♦ Interfaces

♦ TOTAL views

CASE entities

A CASE entity is a common definition used when translating entities from one entity type to another. CASE entities are data views, text entities, and elements, and they act as:

- Intermediaries during transformations and merges

- A means of viewing element definitions, data views, or text

- Intermediaries for transfers of entity definitions between external CASE development tools and MANTIS (to be supported with CASE Connectivity)

SUPRA entities

MANTIS Entity Transformers currently supports SUPRA RDM Views.

Possible transformations and merges

The following figure shows possible transformations and merges of entities:
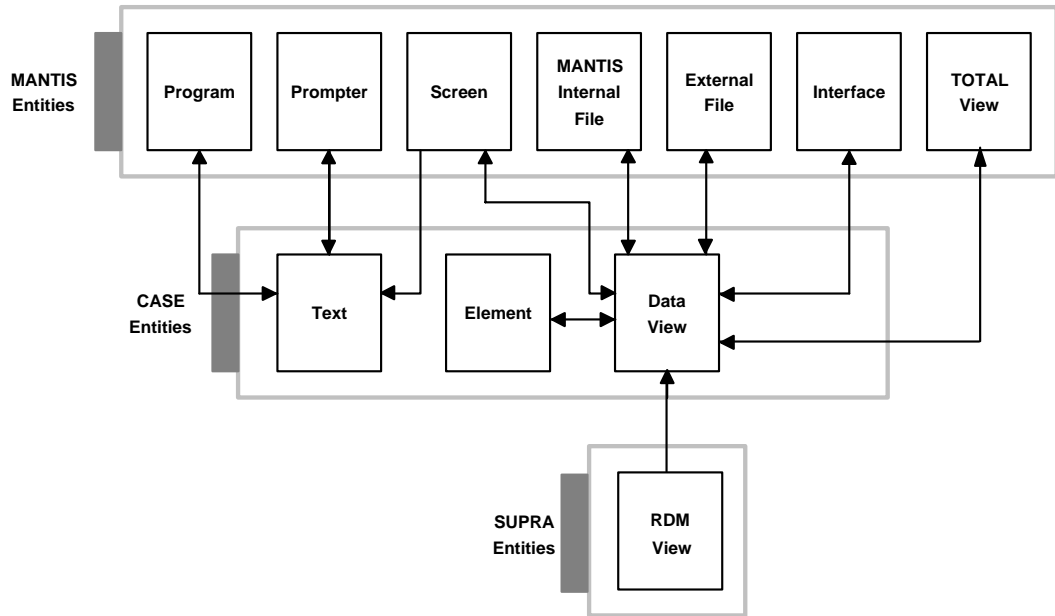
Navigating through the system

To access the MANTIS Entity Transformer Facility, perform one of the following:

♦ Select Entity Transformers (shown in the following screen illustration as option 17) from the MANTIS Facility Menu.

♦ Select "Run a program by name" and use the program name "CASE:CASE_SELECT".

NOTE

Your Master User can change the MANTIS Facility Selection screen, so your screen may not exactly match the following screen.

```
FACILMENU02             MANTIS Facility Selection Menu        YYYY:MM:DD
                                                              HH:MM:SS
Please select one of the menu options below.


 17       Run a Program by Name  ......  1  Sign On as Another User  .... 11
          Display a Prompter  ........  2  Search Facility  ........... 12
          Design a Program  ..........  3  Query Report Writer  ........ 13
          Design a Screen  ...........  4  Directory Facility  ......... 14
          Design a MANTIS File View  ..  5  Transfer Facility  .......... 15
          Design a Prompter  .........  6  Cross Reference Facility  ... 16
          Design an Interface  ........  7  Entity Transformers  ........ 17
          Design a TOTAL File View  ...  8  Universal Export Facility  .. 18
          Design an External File View  9  Print Facility  ............. 19
          DL/I Access View   .........  10




 F1=HELP  F3=END  F12=CANCEL
```

The blank Entity Directory screen (from which you select an entity type) then appears, as shown in the following screen illustration:

```
 USER:          (SL 2201) DIRECTORY OF ????????                   YYYY/MM/DD
 TEST                                                             HH:MM:SS
          Command ===>                 (? for list)              Page:
   New entity type ===>                            Select only:
       Entity name ===>                * * * * * * * * * * * * * * * * * * *
                                       *       Select Entity Type        *
 S ----------- Name ------------- * with an 'S' and press 'ENTER' ----- * ----
                                       * S Internal Files                *
                                       *   External Files                *
                                       *   Screens                       *
                                       *   Programs                      *
                                       *   Interfaces                    *
                                       *   Prompters                     *
                                       *   TOTAL Views                   *
                                       *   RDM Views                     *
                                       *   Elements                      *
                                       *   Text Data                     *
                                       *   Data Views                    *
                                       *                                 *
                                       *                                 *
                                       * * * * * * * * * * * * * * * * * * *


 CASZLIA:(S)Select an item from the displayed list or 'CANCEL' to return
```

Selecting the directory for an entity type

To select an entity type, enter S (for select) next to the desired type of entity and press ENTER. When you select an entity type, the Directory screen is redisplayed with:

♦ Existing entities listed alphabetically under the NAME field with descriptions

♦ Permitted functions across the top of the screen. For example:

```
EDIT   TRANSFORM   MERGE   DELETE   COPY   RENAME   MENU   LOGOFF   FILE-MAINT   SAP
```

Switching directories

To transfer from one directory to another, erase or blank out the contents of the Command and Entity name fields, enter the name of the entity whose directory you want to see in the New entity type field, and press ENTER.

The following screen illustration shows a sample Directory of Internal Files:

```
 EDIT   TRANSFORM  MERGE  DELETE  COPY  RENAME  MENU  LOGOFF  FILE-MAINT  SAP
USER:      (SL 2201) DIRECTORY OF Internal Files                YYYY/MM/DD
TEST                                                            HH:MM:SS
         Command ===>                    (? for list)           Page: 1
  New entity type ===>                              Select only:
     Entity name ===>

S ------------ Name ------------- --------------- Description ----------------
   BATCH_CUST_WORK               BURRYS CUSTOMER SORT WORK FILE
   BURRYS_FILE1                  BURRYS CUSTOMER INFORMATION FILE
   CASE_DATAFIELDS               CASE DATA VIEW FIELDS
   CASE_DATAVIEW                 CASE DATA VIEW PROFILE ENTITY
   CASE_ELEMENT                  CASE DATA ELEMENT ENTITY
   CASE_TEXTHDR                  CASE TEXT ENTITY PROFILE
   CASE_TEXTLINE                 CASE UNFORMATTED TEXT LINE
   DR_FILE465                    TEST
   FILE1                         TEST
   FILE2                         TEST
   FILE3                         TEST
   TEST_FILE                     TEST
   TEST_FILE2                    TEST
   TEST_FILE3                    TEST
   TEST_FILE4                    TEST


 S=SELECT  PF7=BCK  PF8=FWD  PF3/CANCEL=EXIT
```

Directory fields

Command

Description   Enter the name of the command you wish to perform in this field. Permitted commands are listed at the top of the screen. You can also overlay a window of valid commands on this screen by entering a question mark (?) in the Command field and pressing ENTER.

New entity type

Description   When you perform a merge or transformation, enter the type of entity you wish to create in this field.

Options   I   Internal file

E   External file

S   Screen

P   Program

INTERF   Interface

PROM   Prompter

EL   Element

TE   Text data

D   Data view

TO   TOTAL view

Considerations

♦   You can also use this field to transfer directly to another Entity Directory by entering its name in this field and pressing ENTER.

♦   You can enter a question mark (?) to display a list of valid entity types.

Entity Name

Description   When you perform a merge or transformation, enter the entity name to be created or merged into this field. For a COPY or RENAME, enter the target name into this field. You can also use this field to specify a particular entity instead of using the "S" (Select) field.

Select Only

> **Description**   Provide a partial key to limit the entity directory list.

S

> **Description**   Select the entity or entities you wish to perform an action on by entering an S (for select) next to the entity name with this field.

CASE entity files

The five files listed below make up the CASE entities, as follows:

- ♦ CASE_DATAFIELDS   } CASE data view entity

- ♦ CASE_DATAVIEW   }

- ♦ CASE_ELEMENT   } CASE elements entity

- ♦ CASE_TEXTHDR   } CASE text entity

- ♦ CASE_TEXTLINE   }

These files are supplied as part of MANTIS Entity Transformers; you need not create them, and they are automatically re-created if you delete them. Using CASE entities is discussed in detail in "Using transformer functions" on page 25 and "Accessing CASE entities" on page 43. If you delete any of these files, the corresponding CASE entities are also deleted.

NOTE	If you delete any these files, the corresponding CASE entities are also deleted.

2

Using transformer functions

This chapter describes the functions you can perform on entities. These functions are:

♦ "Transforming entities" on page 26

♦ "Merging entities" on page 31

♦ "Uploading entities" on page 34

♦ "Deleting entities" on page 34

♦ "Renaming Entities" on page 35

♦ "Using the Menu Command" on page 36

♦ "Logging off from MANTIS" on page 36

♦ "Maintaining files" on page 37

♦ "Maintaining interfaces" on page 41

Initiate these functions from an entity's Directory screen. For information about using Entity Transformers for SAP files, refer to *MANTIS SAP Facility, OS/390, VSE/ESA*, P39-7000.

NOTE	**Warning**: If you receive an error message indicating you are a non-authorized user for CASE_*XXXXX* (a file you previously had access to), check with your System Administrator. Your password has been changed by the DBA, and you must reflect that change for your CASE_*XXXXX* files.

Transforming entities

A transformation translates an entity of one type to an entity of the same or different type; for example, a screen to a screen or a file to a screen. (A transformation of one entity to another entity of the same type is the same as a copy.) When a source entity is transformed, its field definitions and header information are automatically translated into header and field information for the target entity.

If the transformed entity is correct for your intended use, you will not need to edit it. Otherwise, you may need to make changes for a generated screen, such as:

♦   Repositioning fields

♦   Adding headings

♦   Changing field attributes

Possible transformations

The following table summarizes possible transformations among MANTIS, CASE, and SUPRA entity types. An X indicates possible transformations. A number indicates special conditions for transformations. The notes below the table explain these conditions.

To entity type

From entity type	MANTIS							SUPRA	CASE		
	S	TO	I	E	INTERF	P	PROM	R	EL	D	TE
MANTIS											
Screen (S)	X	4	1	1	X	2	2		X	X	X
Internal File (I)	X	4	X	X	X				X	X	
External File (E)	X	4	X	X	X				X	X	
Interface (INTERF)	X	4	X	X	X				X	X	
TOTAL (To)	X	X	X	X	X						
Program (P)						X	2				X
Prompter (PROM)						2	X				X
SUPRA											
RDM View (R)	X	4	X	X	X				X	X	
CASE											
Element (EL)	3	4	3	3	3				X	X	
Data View (D)	X	4	X	X	X				X	X	
Text Data (TE)						2	2				X

1—The first data item specification becomes the file key.
2—Generated as program comment lines or prompter text lines.
3—Effects transfer of single elements from any group descriptions.
4—You must edit the transformed TOTAL view to update the TOTAL elements names.

Performing a transformation

To transform an entity:

1. Display the directory of the source entity (the entity being transformed). For example, see the following screen:

```
 EDIT   TRANSFORM  MERGE  DELETE  COPY  RENAME  MENU  LOGOFF  FILE-MAINT  SAP
USER:       (SL 2201) DIRECTORY OF Internal Files                 YYYY/MM/DD
TEST                                                              HH:MM:SS
         Command ===> transform        (? for list)                 Page: 1
  New entity type ===> s                              Select only:
     Entity name ===> File1_Browse

S ------------ Name -------------- --------------- Description ----------------
  BATCH_CUST_WORK                  BURRYS CUSTOMER SORT WORK FILE
  BURRYS_FILE1                     BURRYS CUSTOMER INFORMATION FILE
  CASE_DATAFIELDS                  CASE DATA VIEW FIELDS
  CASE_DATAVIEW                    CASE DATA VIEW PROFILE ENTITY
  CASE_ELEMENT                     CASE DATA ELEMENT ENTITY
  CASE_TEXTHDR                     CASE TEXT ENTITY PROFILE
  CASE_TEXTLINE                    CASE UNFORMATTED TEXT LINE
  DR_FILE465                       TEST
S FILE1                            TEST
  FILE2                            TEST
  FILE3                            TEST
  TEST_FILE                        TEST
  TEST_FILE2                       TEST
  TEST_FILE3                       TEST
  TEST_FILE4                       TEST


S=SELECT   PF7=BCK   PF8=FWD   PF3/CANCEL=EXIT
```

2. In the Command field, enter Transform or T.

3. In the New entity type field, enter the entity type for the target entity. The following list provides the entity type names (for permitted transformations, see the table under "Possible transformations" on page 27):

   ♦ INTERNAL FILE

   ♦ EXTERNAL FILE

   ♦ SCREEN

   ♦ PROGRAM

   ♦ INTERFACE

   ♦ PROMPTER

   ♦ ELEMENT

   ♦ TEXT DATA

   ♦ DATA VIEW

   ♦ TOTAL VIEW

4. In the Entity name field, enter the name of the target entity. (If you are transforming or merging something into the Elements entity, this field is ignored.)

5. Next to the source entity, enter S (for select) under S.

6. To perform the transformation, press ENTER.

You will see a confirmation message, as shown in the following screen:

```
 EDIT   TRANSFORM  MERGE  DELETE  COPY  RENAME  MENU  LOGOFF  FILE-MAINT  SAP
USER:       (SL 2201) DIRECTORY OF Internal Files              YYYY/MM/DD
TEST                                                           HH:MM:SS
         Command ===>                   (? for list)            Page: 1
  New entity type ===>                              Select only:
     Entity name ===>


S ----------- Name ------------- --------------- Description ----------------
  BATCH_CUST_WORK               BURRYS CUSTOMER SORT WORK FILE
  BURRYS_FILE1                  BURRYS CUSTOMER INFORMATION FILE
  CASE_DATAFIELDS               CASE DATA VIEW FIELDS
  CASE_DATAVIEW                 CASE DATA VIEW PROFILE ENTITY
  CASE_ELEMENT                  CASE DATA ELEMENT ENTITY
  CASE_TEXTHDR                  CASE TEXT ENTITY PROFILE
  CASE_TEXTLINE                 CASE UNFORMATTED TEXT LINE
  DR_FILE465                    TEST
  FILE1                         TEST
  FILE2                         TEST
  FILE3                         TEST
  TEST_FILE                     TEST
  TEST_FILE2                    TEST
  TEST_FILE3                    TEST
  TEST_FILE4                    TEST


 S=SELECT  PF7=BCK  PF8=FWD  PF3/CANCEL=EXIT       -- request completed
```

To view the new entity:

1. Transfer to its directory by entering the entity type in the New entity type field.

2. Perform one of the following:

    ♦   View the internal file by placing an "S" to the left of the internal file name (under the "S" column heading) and pressing ENTER.

    ♦   Edit the internal file by entering Edit into the Command field, placing an "S" to the left of the internal file name (under the "S" column heading), and pressing ENTER.

    MANTIS will execute "view" or "edit" sequentially for each internal file you select with an "S". For example, if you select both FILE1 and FILE2 with an S, MANTIS will first display FILE1. When you exit FILE1, MANTIS will display FILE2.

Merging entities

A merge combines multiple source entities into a single target entity. Field definitions of the source entities are automatically translated into field information for the target entity. Header information for the target entity will be created from the first entity header information.

Attempting to merge two or more screens into either programs, prompters, or text entries produces a CASZNFE (Not found) error message and the resulting merge entity will be incorrect. To avoid this problem, transform the screens into the desired entity type (program, prompter, or text), then merge the entities to create the desired entity member.

Attempting to merge three or more screens into a single screen produces a CASZSEE (Screen not created) error message, and the screen will not be created. To circumvent this problem, merge two screens together, then merge that resulting screen with the next screen to create another intermediate screen, and so on. The last merge in the progression will result in the desired screen entity.

The table under "Possible transformations" on page 27 summarizes possible merges of MANTIS, CASE, and SUPRA entity types. An X or a number indicate the merge is permitted. For example, see the following screen:

```
 EDIT   TRANSFORM  MERGE  DELETE  COPY  RENAME  MENU  LOGOFF  FILE-MAINT  SAP
USER:        (SL 2201) DIRECTORY OF Internal Files                YYYY/MM/DD
TEST                                                              HH:MM:SS
        Command ===> merge          (? for list)                 Page: 1
  New entity type ===> s                          Select only:
     Entity name ===> File1_Browse

S ----------- Name -------------- -------------- Description ----------------
  BATCH_CUST_WORK                 BURRYS CUSTOMER SORT WORK FILE
  BURRYS_FILE1                    BURRYS CUSTOMER INFORMATION FILE
  CASE_DATAFIELDS                 CASE DATA VIEW FIELDS
  CASE_DATAVIEW                   CASE DATA VIEW PROFILE ENTITY
  CASE_ELEMENT                    CASE DATA ELEMENT ENTITY
  CASE_TEXTHDR                    CASE TEXT ENTITY PROFILE
  CASE_TEXTLINE                   CASE UNFORMATTED TEXT LINE
  DR_FILE465                      TEST
  FILE1                           TEST
S FILE2                           TEST
  FILE3                           TEST
  TEST_FILE                       TEST
  TEST_FILE2                      TEST
  TEST_FILE3                      TEST
  TEST_FILE4                      TEST



 S=SELECT  PF7=BCK  PF8=FWD  PF3/CANCEL=EXIT
```

Merging source entities into a target entity

To merge entities into a new entity, first display the source entity directory. Then perform the following steps:

1. In the Command field, enter Merge or M.

2. In the New entity type field, enter the entity type for the target entity, one of the following (see the table under "Positioning command options" on page 39 for permitted merges):

   ♦ <u>I</u>NTERNAL FILE

   ♦ <u>E</u>XTERNAL FILE

   ♦ <u>S</u>CREEN

   ♦ <u>P</u>ROGRAM

   ♦ <u>INTER</u>FACE

   ♦ <u>PROM</u>PTER

   ♦ <u>EL</u>EMENT

   ♦ <u>TE</u>XT DATA

   ♦ <u>D</u>ATA VIEW

   ♦ <u>TO</u>TAL VIEW

3. In the Entity name field, enter the name of the target entity. (If you are transforming or merging something into the Elements entity, this field is ignored.)

4. Next to the source entity, enter S (for select) under S.

5. To perform the merge, press ENTER.

You will see a confirmation message. To view the new (target) entity, transfer to its directory. The new entity is given the description of the merged entity that was selected first in the merge process.

Uploading entities

This capability is available as an option through CASE Connectivity.

Deleting entities

To delete an entity, first display its directory. Then enter DELETE or D in the Command field, and S (for select) next to the entity or entities you wish to delete. To perform the deletion, press ENTER. You receive a confirmation message that the deletions were successful. You can also enter the name of the entity to be deleted in the Entity name field. You will then be prompted to confirm the deletion. To confirm the deletion, enter Y (for yes). To cancel the deletion, enter N (for no). For example, see the following screen:

```
  EDIT   TRANSFORM  MERGE   DELETE   COPY  RENAME  MENU   LOGOFF  FILE-MAINT   SAP
 USER:       (SL 2201) DIRECTORY OF Internal Files                 YYYY/MM/DD
 TEST                                                              HH:MM:SS
           Command ===> delete            (? for list)             Page: 1
  New entity type ===>                                  Select only:
       Entity name ===>

 S ----------- Name -------------- -------------- Description ----------------
   BATCH_CUST_WORK                  BURRYS CUSTOMER SORT WORK FILE
   BURRYS_FILE1                     BURRYS CUSTOMER INFORMATION FILE
   CASE_DATAFIELDS                  CASE DATA VIEW FIELDS
   CASE_DATAVIEW                    CASE DATA VIEW PROFILE ENTITY
   CASE_ELEMENT                     CASE DATA ELEMENT ENTITY
   CASE_TEXTHDR                     CASE TEXT ENTITY PROFILE
   CASE_TEXTLINE                    CASE UNFORMATTED TEXT LINE
   DR_FILE465                       TEST
 S FILE1                           TEST
   FILE2                            TEST
   FILE3                            TEST
   TEST_FILE                        TEST
   TEST_FILE2                       TEST
   TEST_FILE3                       TEST
   TEST_FILE4                       TEST


 CASZDOC:Enter y(yes) or n(no) to confirm DELETE of FILE1
```

Renaming Entities

A rename enables you to change the name of an entity on the MANTIS library.

To use the Rename command, perform the following:

1. Display the directory of the source entity.

2. In the Command field, enter Rename or R.

3. In the Entity name field, enter the new entity name.

4. In the directory list, place an "S" to the left of the entity to be renamed (the old entity name).

5. Press ENTER.

MANTIS will rename the entity and display the new entity name in the directory list.

For an example in which an internal file is renamed from FILE1 to FILE001, see the following screen:

```
  EDIT   TRANSFORM   MERGE   DELETE   COPY   RENAME   MENU   LOGOFF   FILE-MAINT   SAP
 USER:        (SL 2201) DIRECTORY OF Internal Files                    YYYY/MM/DD
 TEST                                                                  HH:MM:SS
          Command ===> Rename            (? for list)              Page: 1
   New entity type ===>                              Select only:
       Entity name ===> FILE001

 S ------------ Name -------------- --------------- Description ----------------
    BATCH_CUST_WORK                 BURRYS CUSTOMER SORT WORK FILE
    BURRYS_FILE1                    BURRYS CUSTOMER INFORMATION FILE
    CASE_DATAFIELDS                 CASE DATA VIEW FIELDS
    CASE_DATAVIEW                   CASE DATA VIEW PROFILE ENTITY
    CASE_ELEMENT                    CASE DATA ELEMENT ENTITY
    CASE_TEXTHDR                    CASE TEXT ENTITY PROFILE
    CASE_TEXTLINE                   CASE UNFORMATTED TEXT LINE
    DR_FILE465                      TEST
 S  FILE1                          TEST
    FILE2                          TEST
    FILE3                          TEST
    TEST_FILE                       TEST
    TEST_FILE2                      TEST
    TEST_FILE3                      TEST
    TEST_FILE4                      TEST


 S=SELECT  PF7=BCK  PF8=FWD  PF3/CANCEL=EXIT
```

Using the Menu Command

The Menu command returns you to your Facility menu.

To use the Menu command, perform the following:

1.   In the Command field, enter Menu.

2.   Press ENTER.

MANTIS will return you to the program name specified as the Facility program for your user.

Logging off from MANTIS

The Logoff command signs you off MANTIS.

To use the Logoff command, perform the following:

1.   In the Command field, enter Logoff or L.

2.   Press ENTER.

MANTIS will sign you off and return you to CICS.

Maintaining files

MANTIS Entity Transformers allows you to perform file maintenance on files, and RDM views if you have the required access privileges. You can browse, insert, update, and delete file records. For convenience in this discussion, we refer to files and views by the generic term *file*.

To perform file maintenance, access the file's directory. Then enter F or FILE in the Command field, and S (for select) next to the file you want to access. Press ENTER, and a screen with the file's fields will display.

The following options are available:

Key pressed	Action
ENTER	Browse (GET qualified by Positioning Command)
PA2 (or designated CANCEL key)	Exit File-Maint function
PF1	Insert
PF2	Update
PF3	Delete

It is important to note that you cannot perform file maintenance on a file that is too large to be handled by MANTIS Entity Transformers screen-building capabilities. The limits depend on the number of headings and element names in the source file. The number, size, and occurrence of data fields in the source file affect the capabilities as well. For example, an external file view that has 160 fields, many of which are defined as arrays, would exceed the 254 row by 254 column screen dimensions.
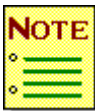
NOTE

OpenVMS/Unix notes:

For the FILE-MAINT function, the key of the file-like entities must not be made up of more than eight subkeys.

For FILE-MAINT, be aware that if it stops with a MANTIS error, and the CASE programs keep control, a user action (pressing ENTER) is required to return to MANTIS.

For defined EXTERNAL keyed files, each must have DCL defined before using FILE-MAINT against that file.

Only keyed files are supported for INSERT, UPDATE, and DELETE. These include MANTIS internal and external files and RDM files.

The Transformer File Maintenance screen is created dynamically, so your screen may not match it exactly. Depending on your user access, your screen may contain one, both, or all three of the PF keys displayed in the bottom line of the following screen:

```
FIELD1 . data value
FIELD2 . data value
FIELD3 . data value




















 ENTER=BROWSE  CANCEL=EXIT  PF1=INSERT  PF2=UPDATE  PF3=DELETE - (status)
 (positioning command area)
```

The status area of this screen displays one of the four valid status states for your file:

♦ **GOOD.** Function completed.

♦ **NOT FOUND.** Key was not found on the file.

♦ **END.** End of the file was reached when viewing the file.

♦ **ERROR.** External error has occurred.

In response to other types of commands, you will receive file status indicators. For the values MANTIS returns in the file status indicator (FSI), refer to *MANTIS Language, OS/390, VSE/ESA*, P39-5002.

Positioning command options

To indicate a specific access point in a file, enter one of the valid positioning options in the positioning command area of the screen.

The following table summarizes the possible positioning commands you may enter. An S indicates the command is supported. NS indicates the command is not supported for that file type.

Positioning commands	File types				
	Internal	External	RDM	Personal computer	TOTAL
FIRST	S	S	S	S	S
NEXT (default)	S	S	S	S	S
LAST	S	S	S*	S	NS
EQUAL	S	S	S	S	S
AT (mark name)	NS	NS	NS	NS	NS
MARK	NS	NS	NS	NS	NS
PRIOR	NS	NS	S*	NS	NS

* Depends on the defined capabilities of the view.

Viewing file records

To browse through the file, press ENTER to display successive records.

To view a specific file key, enter the entire highlighted string of keys data in the screen field(s) and press ENTER. MANTIS will perform a GET EQUAL on the entered keys.

To view a partial file key (browsing from a specific point), enter the partial key. For example, suppose a file has three keys: K1, K2, and K3. If you want to browse only K1 and K2, you enter the data for K1 and K2, clear the data field for K3, and press ENTER. When the NOT FOUND status message appears on your screen, press ENTER again. You will now be automatically positioned at the first record corresponding to the K1 and K2 data.
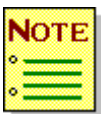
NOTE	You can follow the same procedure to browse data in K1 and K3, by omitting the data for K2. You can browse the data in K2 and K3, by omitting the data for K1. In both cases, do not clear the data for the unwanted key or make any other entry.

Inserting file records

To insert a record, enter the record information and press PF1. You receive a confirmation message. The sequential position of the new record depends on the file type and key value

Updating file records

To update a record, display it on the screen. Then enter your changes and press PF2. The record is then updated, and you receive a confirmation message.

Deleting file records

To delete a record, display it on the screen and press PF3. You will receive a confirmation message.

After a DELETE, you are positioned at the next key following the deleted record.

To return to the file directory, press PA2.

Maintaining interfaces

The interface command enables you to pass and view data associated with a specific interface area and interface program, making it possible for you to test interfaces and perform maintenance on entities outside the control of MANTIS, but accessible by interface. The system displays the interface fields before and after the interface CALL on a generated screen.

To use the interface maintenance command, display the directory of the source entity. Then, perform the following steps:

1. In the Command field, enter INTERF-MAINT or I.

2. In the Entity name field, enter the interface name, or select it with an S from the directory list.

3. Press ENTER.

It is important to note that you cannot perform interface maintenance on an interface layout that is too large to be handled by MANTIS Entity Transformers screen-building capabilities. The limits depend on the number of headings, and element names in the source file. The number, size, and occurrence of data fields in the source file affect it as well. For example, an external file view that has 160 fields, many of which are defined as arrays, would exceed the 255 row by 255 column screen dimensions.

> **NOTE**
>
> If INTERFACE-MAINT stops with a MANTIS error, and the CASE programs keep control, a user action (pressing ENTER) is required to return to MANTIS.

If necessary, you can do one of the following:

♦ Cancel interface maintenance by pressing the CANCEL key (normally, CANCEL is assigned to PA2).

♦ Clear the screen by pressing ENTER.

3

Accessing CASE entities

This chapter discusses the CASE entities, which are:

♦   CASE elements

♦   CASE text entities

♦   CASE data

As discussed in the previous chapter, CASE entities act as:

♦   Intermediaries during transformations and merges

♦   A means of viewing element definitions, data views, or text

♦   Intermediaries for transfers of entity definitions between external
    CASE development tools and MANTIS (supported with CASE
    Connectivity)

The following table lists files that contain the definitions used to format these entities. MANTIS automatically creates these files when you first sign on to Transformers. They are listed alphabetically on the Directory of Internal Files (shown in "Switching directories" on page 21). If you delete any of these files, the corresponding CASE entities (the file contents) are also deleted.

File name	Description
CASE DATAFIELDS	CASE data view fields; the field definitions for all of the data views you create.
CASE DATAVIEW	CASE data view profile entity; the name and header information for the data views you create.
CASE ELEMENT	CASE data elements; the definitions of elements in your elements file.
CASE TEXTHDR	CASE text entity profile; the name and header information for any text files you create.
CASE TEXTLINE	CASE unformatted text lines; the strings of text you define in text files CASE Element.

CASE elements

An element is a field definition. To access an element, first access the Element Directory. To access or create an element definition, enter EDIT in the Command field. Enter the name of the element in the Entity name field, or enter S (for select) next to the element's name, and press ENTER.

```
        EDIT   TRANSFORM  MERGE  DELETE  COPY  RENAME  MENU  LOGOFF  SAP
USER:        (SL 2201) DIRECTORY OF Elements                    YYYY/MM/DD
TEST                                                            HH:MM:SS
        Command ===> EDIT            (? for list)               Page: 1
  New entity type ===>                              Select only:
     Entity name ===>

S ------------ Name ------------- -------------- Description ----------------
S CUST_NAME
  CUST_NUMBER







S=SELECT  PF7=BCK  PF8=FWD  PF3/CANCEL=EXIT
```

For descriptions of this screen's fields, see "Field descriptions" on page 67.

The left side of the CASE Element Data screen, shown in the following
screen illustration, then appears with the element name carried over from
the previous screen.

```
               CASE Element Data                              YYYY/MM/DD
                                                              HH:MM:SS
           Name CUST_NAME                                     Page: 1
    Description
        Aliases
 Picture(in/out)
     Edit rules
  Default value
      Low range
     High range
   Column title
         Prompt
    Short title                                          Derived
          Class
         Source


      Data type  T (Ext/int)   Length 20      Decimals         Signed
                    Display length            Mask

 Intensity       Required           Protected        Cursor    Color
    Blink        Highlight     Default display      Autoskip    Box
                 Underline       Reverse video    Detectable    MDT

ENTER=UPDATE   PF3=SAVE   PF10=LEFT   PF11=RIGHT   CANCEL=EXIT
```

For descriptions of this screen's fields, see "Field descriptions" on
page 67.

Element information is continued on the right side of the following screen. To scroll to the right, press PF11; to scroll back to the left, press PF10. The element's name and description are displayed on both screens.

```
            CASE Element Data                     YYYY/MM/DD
                                                  HH:MM:SS
        Name CUST_NAME                            Page: 2


 Long Description









 ENTER=UPDATE   PF3=SAVE   PF10=LEFT   PF11=RIGHT   CANCEL=EXIT
```

For descriptions of this screen's fields, see "Field descriptions" on page 67.

Creating element definitions

To create an element definition, enter information and press ENTER, then PF3 to save it.

Editing element definitions

To edit an element definition, simply display it on the CASE Element Data screen, overwrite existing values, and press PF3.

CASE text data

To access or create text data, first access the Text Data Directory (see the following screen illustration). Enter EDIT in the Command field and the name of the text entity, or the name with which you want to reference the text entity, in the Entity name field and press ENTER. You can also select an existing text data entity by entering S (for select) next to the entity's name and press ENTER.

```
          EDIT   TRANSFORM  MERGE  DELETE  COPY  RENAME  MENU  LOGOFF  SAP
 USER:        (SL 2201) DIRECTORY OF Text Data                     YYYY/MM/DD
 TEST                                                              HH:MM:SS
          Command ===> EDIT            (? for list)                Page: 1
   New entity type ===>                              Select only:
      Entity name ===> text-data-name

 S ----------- Name ------------- -------------- Description ----------------






 S=SELECT  PF7=BCK  PF8=FWD  PF3/CANCEL=EXIT
```

For descriptions of this screen's fields, see "Field descriptions" on page 67.

The left side of the CASE Text Data screen, shown in the following screen illustration, displays with the name carried over from the previous screen.

Text entity information continues on the right side of the CASE Text Data screen to column position 80. To scroll to the right, press PF11; to scroll back to the left, press PF10.

```
            CASE Text Data                      Changed: HH:MM:SS
                                                         YYYY/MM/DD
          Name: TEXT-DATA-NAME                          Page: 1
   Description:
                                                        Lines: 1
LC    ....+....1....+....2....+....3....+....4....+....5....+....6....+....7....
1     TEST




















LC=I,D,R,M,C,A  PF7=BCK  PF8=FWD  PF10=LEFT PF11=RIGHT PF3/CANCEL=EXIT
```

For descriptions of this screen's fields, see "Field descriptions" on page 67.

Data view design line commands

To create or edit text data, use the Line Commands described in the following table. Line commands are listed on the screen as:

```
LC=I,D,R,M,C,A
```

Enter the Line Command over the line's number. When the text entity is complete, press ENTER to create or change it.

Command	Description	How to use it
I	INSERT	To insert a line, enter I on the line's number, then enter the field information for that line and press ENTER. Subsequent lines scroll down.
D	DELETE	To delete a line, enter D on the line's number and press ENTER. Subsequent lines scroll up.
R	REPEAT	To repeat a line, enter R on the line's number and press ENTER. Subsequent lines scroll down.
M	MOVE	(Used with the A (after) command) To move a line, enter M on the line's number. Then enter A on the number of the line after which you want the first line moved, and press ENTER. Only one line can be moved at a time.
C	COPY	Used with the A (after) command) To copy a line, enter C on the line's number. Then enter A on the number of the line after which you want the first line copied, and press ENTER. Only one line can be copied at a time.
A	AFTER	Used with the C(opy) or M(ove) commands. To copy or move a line: 1. Enter C or M on the number of the line that you would like to copy or move. 2. Enter A on the number of the line after which you want the first line to be copied or moved. 3. Press ENTER. Only one line can be copied or moved at a time.

CASE data views

To access or create a data view, first access the Data View Directory (see the following screen illustration). Enter EDIT in the Command field and the name of the data view, or the name with which you want to reference the data view, in the Entity name field and press ENTER. You can also select an existing data view by entering S (for select) next to its name and press ENTER.

```
          EDIT  TRANSFORM  MERGE  DELETE  COPY  RENAME  MENU  LOGOFF  SAP
USER:       (SL 2201) DIRECTORY OF Data Views                   YYYY/MM/DD
MASTER                                                          HH:MM:SS
          Command ===> edit              (? for list)           Page: 1
  New entity type ===>                              Select only:
     Entity name ===> ADV DUMMY

S ------------ Name -------------- --------------- Description ----------------
   ADV_DUMMY                        IS USED TO GET ACTUAL DEC, COMMENT AND HASH








 S=SELECT  PF7=BCK  PF8=FWD  PF3/CANCEL=EXIT
```

For descriptions of this screen's fields, see "Field descriptions" on page 67.

The left side of the CASE Data View Design screen, shown in the following screen illustration, then displays with the name carried over from the previous screen:

```
               CASE Data View Design                      Changed: YYYY/MM/DD
                                                                   HH:MM:SS
           Name: ADV_DUMMY                                         Page: 1
   Description: IS USED TO GET ACTUAL DEC, COMMENT AND HASH
     File type:                       Record type:               Fields: 1
        Source: SCREEN                  Max length:
                                                              Dimensions:
 LC  ---------- Field Name ---------- Atr Type Len Dec S Lev Outer Inner    --->
 1   F1                                N    4   2




















 LC=I,D,R,M,C,A  PF7=BCK   PF8=FWD   PF10=LEFT PF11=RIGHT PF3/CANCEL=EXIT
```

For descriptions of this screen's fields, see "Field descriptions" on page 67.

Data view information is continued on the right side of the following screen. To scroll to the right, press PF11 ; to scroll back to the left, press PF10. Header and field information are displayed on both screens.

```
            CASE Data View Design                    Changed: YYYY/MM/DD
                                                              HH:MM:SS
          Name: ADV_DUMMY                                    Page: 1
 External name:
     Passwords: HALOGEN                                     Fields: 1
 Max row/cols: 22  / 80
                                        Repeats Offsets
<-- Field Name --- Start Offst Row Col Len  V   H    V   H  --------Mask--------
F1                                1   2   5                    #.##






LC=I,D,R,M,C,A  PF7=BCK  PF8=FWD  PF10=LEFT PF11=RIGHT PF3/CANCEL=EXIT
```

For descriptions of this screen's fields, see "Field descriptions" on page 67.

Creating a data view

To create a data view, enter information and press ENTER, then PF3 to save it.

Editing a data view

To edit a data view, simply display it on the CASE Data View screen, overwrite existing values, and press PF3.

4

Accessing MANTIS and SUPRA entities

This chapter describes how to access and view MANTIS and SUPRA entities through MANTIS Entity Transformers. To access a MANTIS or SUPRA entity from Transformers, first access the entity's directory. Then enter an S (for select) next to the entity type in the SELECT ENTITY TYPE window and press ENTER.

You can also transfer from another entity directory. Enter the target directory's name in the New entity type field.

```
USER:        (SL 2201) DIRECTORY OF ????????                        YYYY/MM/DD
MASTER                                                              HH:MM:SS
         Command ===>                   (? for list)                Page:
  New entity type ===>                            Select only:
     Entity name ===>              * * * * * * * * * * * * * * * * * *
                                   *      Select Entity Type        *
S ----------- Name ------------- * with an 'S' and press 'ENTER' ----- * ----
                                   * S Internal Files                *
                                   *   External Files                *
                                   *   Screens                       *
                                   *   Programs                      *
                                   *   Interfaces                    *
                                   *   Prompters                     *
                                   *   TOTAL Views                   *
                                   *   RDM Views                     *
                                   *   Elements                      *
                                   *   Text Data                     *
                                   *   Data Views                    *
                                   *                                 *
                                   *                                 *
                                   * * * * * * * * * * * * * * * * * *

CASZLIA:(S)Select an item from the displayed list or 'CANCEL' to return
```

Editing MANTIS entities

To edit a MANTIS entity, first display it on the appropriate Entity Directory screen. Then enter EDIT in the Command field and S (for select) next to its name. MANTIS automatically transfers control to the appropriate MANTIS Design Facility screen and fetches or loads the entity so it is immediately available for editing. When you finish editing the entity, press PA2 to transfer back to the Transformers Directory screen from which the edit originated.

```
  EDIT   TRANSFORM  MERGE  DELETE  COPY  RENAME  MENU  LOGOFF  FILE-MAINT  SAP
 USER:        (SL 2201) DIRECTORY OF Internal Files            YYYY/MM/DD
 TEST                                                          HH:MM:SS
          Command ===> Edit              (? for list)              Page: 1
   New entity type ===>                                  Select only:
      Entity name ===>

 S ------------ Name -------------- --------------- Description ----------------
   BATCH_CUST_WORK               BURRYS CUSTOMER SORT WORK FILE
   BURRYS_FILE1                  BURRYS CUSTOMER INFORMATION FILE
   CASE_DATAFIELDS              CASE DATA VIEW FIELDS
   CASE_DATAVIEW                CASE DATA VIEW PROFILE ENTITY
   CASE_ELEMENT                 CASE DATA ELEMENT ENTITY
   CASE_TEXTHDR                 CASE TEXT ENTITY PROFILE
   CASE_TEXTLINE                CASE UNFORMATTED TEXT LINE
   DR_FILE465                   TEST
 S FILE1                        TEST
   FILE2                        TEST
   FILE3                        TEST
   TEST_FILE                    TEST
   TEST_FILE2                   TEST
   TEST_FILE3                   TEST
   TEST_FILE4                   TEST


 S=SELECT  PF7=BCK  PF8=FWD  PF3/CANCEL=EXIT
```

You must edit RDM entities through standard RDM facilities. There is no direct connection between Transformers and RDM.

Viewing MANTIS and SUPRA entity attributes

You can display a summary of the attributes of the following MANTIS and SUPRA entities with Transformer screens:

- ♦ MANTIS screens

- ♦ MANTIS prompters

- ♦ MANTIS internal files

- ♦ External file views

- ♦ Interfaces

- ♦ RDM views

- ♦ TOTAL views

Viewing MANTIS screen design attributes

You can display a summary of the field attributes of a MANTIS screen design with the MANTIS Screen Design Data screen, shown in the following two screen illustrations. To display this information for a screen, enter S (for select) next to the screen's name on the Screen Directory (no command is needed) and press ENTER . To display the screen design, press PF1.

```
            MANTIS Screen Design Data              Changed: YYYY/MM/DD
                                                            HH:MM:SS
           Name: RUN_SYSTEM                                 Page: 1
    Description: RUN SYSTEM - MENU DISPLAY
    Domain(R/C): 22  80    Alarm: N     Full display: N
       Password:                    Protect bottom: N            Fields: 31
                                                        Repeats Offset
 LC  -----------Field Name----------- Row/Col Len T P I C R B H  V    H    V    H
 1                                     1   34  16  H Y H Y N N N
 2                                     3   33  19  H Y L N N N N
 3                                     5   3   33  H Y L T N N N
 4   SCREEN_NAME                       5   37  33  T N L G N N N
 5                                     5   71  1   H Y L T N N N
 6                                     6   3   33  H Y L T N N N
 7   NUMBER_RECORDS                    6   37  2   N N L G N N N
 8                                     6   40  1   H Y L T N N N
 9                                     8   3   33  H Y L T N N N
 10  FILE_NAME                         8   37  33  T N L G N N N
 11                                    8   71  1   H Y L T N N N
 12                                    9   3   33  H Y L T N N N
 13  FILE_PASSWORD                     9   37  16  T N N G N N N
 14                                    9   54  23  H Y L T N N N
 15                                    11  3   33  H Y L T N N N
 PF1=TEST  PF7=BCK  PF8=FWD  PF10=LEFT  PF11=RIGHT  PF3/CANCEL=EXIT
```

```
                 MANTIS Screen Design Data              Changed: YYYY/MM/DD
                                                                 HH:MM:SS
              Name: RUN_SYSTEM                             Page: 1
       Description: RUN SYSTEM - MENU DISPLAY


                                                          Fields: 31

 LC -----------Field Name----------- -----------------Mask--------------------
 1                                    M   A   N   T   I   S
 2                                    Run System Facility
 3                                    Name of screen ............... :
 4  SCREEN_NAME
 5                                    :
 6                                    Number records on screen ...... :
 7  NUMBER_RECORDS
 8                                    :
 9                                    Name of file or view .......... :
10  FILE_NAME
11                                    :
12                                    File password ................. :
13 FILE_PASSWORD
14                                    :(not required for RDM)
15                                    Type (MANTIS,TOTAL,VSAM,RDM,DLI):
PF1=TEST  PF7=BCK  PF8=FWD  PF10=LEFT  PF11=RIGHT  PF3/CANCEL=EXIT
```

For descriptions of this screen's fields, see "Field descriptions" on page 67.

Viewing MANTIS prompter designs

You can display or edit a MANTIS prompter with the MANTIS Prompter Design screen. To access a prompter, enter S (for select) next to the prompter's name on the Prompter Directory (no command is needed) and press ENTER. The left side of the prompter, shown in the following screen illustration, displays, with the name carried over from the previous screen. The prompter continues to the right to column position 80. To scroll to the right, press PF11 to scroll back to the left, press PF10. Use the editing commands listed in "Data view design line commands" on page 50 to edit prompters.

```
                   MANTIS PROMPTER DESIGN                          HH:MM:SS
                                                                   YY/MM/DD
              NAME:                                                PAGE 1
       DESCRIPTION:
          PASSWORD:
   NEXT PROMPTER:                                                  LINES: nn

   LC    ....+....1....+....2....+....3....+....4....+....5....+....6....+....7
   1
   2
   3
   4
   5
   6
   7
   8
   9
   10
   11
   12
   13


   LC=I,D,R,M,C,A;PF7=BCK,8=FWD,10=LEFT,11=RIGHT,PF3/PA2=RETURN
```

For descriptions of this screen's fields, see "Field descriptions" on page 67.

Viewing MANTIS internal file attributes

You can display a summary of the attributes of a MANTIS internal file with the MANTIS Internal File Design screen, shown in the following screen illustration. To display this information for an internal file, enter S (for select) next to the internal file name on the Internal File Directory (no command is needed) and press ENTER.

```
               MANTIS Internal File Design              Changed: YYYY/MM/DD
                                                                  HH:MM:SS
           Name: CASE_DATAFIELDS                                 Page: 1
    Description: CASE DATA VIEW FIELDS
      Passwords:                              HALOGEN
         Status: ACTIVE                                         Fields: 47
                                         Dimensions:
LC   ---Field Name---  Atr  Type  Len   Outer Inner        Atr:
1    VIEW_NAME          K    T    28                          K=Key
2    FIELD_NUMBER       K    S                                S=Scramble
3    FIELD_NAME              T    32                          T=Tuple
4    FIELD_DESC             T    60
5    MANTIS_TYPE            T    1                            Type:
6    EXTERNAL_TYPE         T    1                              B=Big
7    EXTERNAL_LENGTH       S                                   S=Small
8    DECIMALS             S                                   T=Text
9    SIGNED               T    1
10   ATTRIBUTES           T    3                            Len:
11   DIM1                 S                                   Length of
12   DIM2                 S                                   text field
13   START                S
14   OFFSET               S
15   LEVELS               S
PF7=BCK   PF8=FWD   PF3/CANCEL=EXIT
```

For descriptions of this screen's fields, see "Field descriptions" on page 67.

Viewing MANTIS external file attributes

You can display a summary of the attributes of an external file with the MANTIS External File Design screen, shown in the following screen illustration. To display this information for an external file, enter S (for select) next to the external file name on the External File Directory (no command is needed) and press ENTER.

```
                MANTIS External File Design              Changed: YYYY/MM/DD
                                                                  HH:MM:SS
         Name: CSOL                                               Page: 1
   Description: BACKGROUND FUNCTION LOGGING FILE VIEW
     Passwords:                                 HALOGEN
        Status: ACTIVE
 External name: CSOL                                File type: SEQUENTIAL
      Reference field: CSI_CSOL_RECORD             Record type: VARIABLE
   Repeat count field:                           Record length: 512
First repeating field:                                  Fields: 13

LC   ---Field Name--- Atr Type Len  Dec  S  Dim  Start Offset
1    RECORDTYPE          T T  1                   1            Atr=K,S
2    PROGRAMID           T T  49                  2            Type1=B,S,T,K
3    USER_ID             T T  16                  51           Type2=T,Z,P,B,F,K
4    USERINVK            T T  16                  67           Len=Bytes
5    PGMINVK             T T  49                  83           Dec=Decimals
6    TERMINVK            T T  8                   132          S=Signed(Y)
7    TASKID              B P  4                   140          Dim=Dimensions
8    DATESP              T T  7                   144
9    TIMESP              T T  6                   151
10   FUNCT               T T  50                  157

PF7=BCK   PF8=FWD  PF3/CANCEL=EXIT
```

For descriptions of this screen's fields, see "Field descriptions" on page 67.

Viewing MANTIS interface layout attributes

You can display a summary of the attributes of an interface with the MANTIS Interface Layout screen, shown in the following screen illustration. To display this information for an interface, enter S (for select) next to the interface name on the Interface Directory (no command is needed) and press ENTER.

```
                MANTIS Interface Layout                 Changed: YYYY/MM/DD
                                                                 HH:MM:SS
            Name: MANEMESS                                       Page: 1
     Description: MANTIS ENDING MESSAGE FOR IMS MESSAGE FORMAT SERVICE (OPT)
       Passwords: MANEMESS
          Status: ACTIVE
    Program name: CSOPIEMS                                     Fields: 4

LC   ---Field Name---     Atr Type Len Dec S Dim Start        Atr:
1    MODNAME                  T T 8             1                S=Single level
2    LL                       S B 2             9
3    ZZ                       S B 2             11             Type1:
4    MESSAGE_TEXT             T T 254     16 13    254           B,S,T,K

                                                              Type2:
                                                                T,Z,P,B,F,K


                                                              Len=Length
                                                              Dec=Decimals
                                                              S=Signed(Y)
                                                              Dim=Dimensions

PF7=BCK   PF8=FWD   PF3/CANCEL=EXIT
```

For descriptions of this screen's fields, see "Field descriptions" on page 67.

Viewing RDM view attributes

You can display a summary of the attributes of an RDM View with the SUPRA RDM View Layout screen, shown in the following screen illustration. To display this information for an RDM view, enter S (for select) next to the RDM view name on the RDM View Directory (no command is needed) and press ENTER.

```
                SUPRA RDM View Layout                   Changed: YYYY/MM/DD
                                                                 HH:MM:SS
           Name:                                                 Page: 1
    Description:
         Source:                      Max length:               Fields:

 LC  ---------- Field Name ---------- Atr Type Len Dec S Lev













PF7=BCK   PF8=FWD   PF3/CANCEL=EXIT
```

For descriptions of this screen's fields, see "Field descriptions" on page 67.

Viewing TOTAL view attributes

You can display a summary of the attributes of a TOTAL view with the MANTIS TOTAL File View Design Screen, shown in the following illustration. To display this information for a TOTAL view, enter S (for select) next to the TOTAL view name on the TOTAL View Directory (no command is needed) and press ENTER.

```
              MANTIS TOTAL File View Design              Changed: YYYY/MM/DD
                                                                  HH:MM:SS
          Name: ENTITY_XREF                                        Page: 1
   Description: XREF ENTITY CROSS REFERENCE RECORD
     Passwords:                                  XXXX
        Status: ACTIVE
 External Name: XRPB                            Reference Variable:
  Linkage Path:                                        Record Code:
                                                     Element Count: 7

LC  ---Field Name---  Atr Type Len  Dec  S  Dim  Element
1   RECORD_TYPE           T T  1                  Atr=K,S
2   ENTITY_TYPE           T T  1                  Type1=B,S,T,K
3   ENTITY_NR             S B  2                  Type2=T,Z,P,B,F,K
4   PROG_NAME             T T  30                 Len=Bytes
5   PROG_LIB_NR           S B  2                  Dec=Decimals
6   ENTITY_LIB_NR         S B  2                  S=Signed(Y)
7   SPECIAL_CODE          T T  1                  Dim=Dimension




 PF7=BCK  PF8=FWD  PF3/CANCEL=EXIT
```

For descriptions of this screen's fields, see "Field descriptions" on page 67.

A

Field descriptions

This appendix alphabetically lists field descriptions for CASE Scratchpad screens. It also describes fields for MANTIS Entity Transformers screens.

For the most part, the field names are identical in both systems. There are a few exceptions, however, where an Entity Transformers field name and a CASE Scratchpad field name are very similar, but not identical.

If the MANTIS Entity Transformers field name you are searching for appears on the following list, you will find it defined in this appendix under the corresponding CASE Scratchpad field name:

Look up this Entity Transformers field name	Under this CASE Scratchpad field name
ATR	ATTRIBUTES
B	BLINK
C	COLOR
CURSOR	CURSOR_FIELD
DATA TYPE	MANTIS_TYPE
DEC	DECIMALS
DEFAULT DISPLAY	DEFAULT_DIS
DIMENSIONS: INNER	DIM1
DIMENSIONS: OUTER	DIM2
DOMAIN (R/C)	ROW_DOMAIN, COL_DOMAIN
FIELDS	COUNT

Look up this Entity Transformers field name	Under this CASE Scratchpad field name
FIRST REPEATING FIELD	DEPENDENT
H	HIGHLIGHT
I	INTENSITY
INNER	COL
LEN	EXTERNAL_LENGTH
LENGTH	EXTERNAL_LENGTH
LEV	LEVELS
LINES	COUNT
LONG DESCRIPTION	LONG_DESCRIPT
MAX ROW/COLS	ROW_DOMAIN, COL_DOMAIN
NEXT PROMPTER	NEXT_SCREEN
OFFST	OFFS
OFFSETS H, OFFSETS V	H_OFFSET, V_OFFSET
OUTER	ROW
P	PROTECTED
PASSWORDS	PASSWORD1, PASSWORD2, PASSWORD3
PICTURE(IN/OUT)	INPUT_PIC, OUTPUT_PIC
PROGRAM NAME	EXTERNAL_NAME
PROMPT	PROMPT_MSG
R	REQUIRED
RECORD LENGTH	MAX_LENGTH
REFERENCE FIELD	REFERENCE
REPEAT COUNT FIELD	COUNT
REPEATS H, REPEATS V	H_REPEAT, V_REPEAT
ROW/COL	ROW, COL
S	SIGNED
T	MANTIS_TYPE
TYPE	MANTIS_TYPE, EXTERNAL_TYPE

ALIASES

Description	*Not used*. The alternate label used for referencing the entity.
SCRATCHPAD file	CASE_ELEMENT
Format	1–32 alphanumeric characters, 3 occurrences

ATTRIBUTES

Description	*Required for files*. The definition of the entity's usage within CASE_DATAVIEW.
SCRATCHPAD file	CASE_DATAFIELDS
Format	1-character, 3-part alphabetical string
Options	Position 1: K KEY. Key Usage
	N NULL. Not Key Usage
	Position 2: S SCRAMBLE. Scramble Data
	N NULL. Do Not Scramble Data
	Position 3: Reserved for future use, must specify N
Consideration	Do not insert spaces or commas between the letters.

AUTOSKIP

Description	*Optional for screens*. The indicator for whether the entity is displayed in AUTOSKIP mode. AUTOSKIP also forces protect OFF.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Format	N or Y
Options	Y The entity displayed is in AUTOSKIP mode.
	N The entity displayed is not in AUTOSKIP mode.

BLANK_CHAR

Description	*Optional for screens.* The character used as the blank character for screen designs.
SCRATCHPAD file	CASE_DATAVIEW
Default	Space bar
Format	Any single alphanumeric keyboard character
Options	User specified.

BLINK

Description	*Optional for screens.* Indicates whether the field is displayed blinking.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	N
Format	N or Y
Options	Y BLINK field is on.
	N BLINK field is off.

BOX

Description	*Optional for screens.* The indicators for each border boundary (right, bottom, top, and left, in this order) of a displayed entity.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	NNNN
Format	N or Y; 1-character, 4-part alphabetical string for the right, bottom, top, and left borders of a box (in this order)

Options

Position 1: Y Right boundary (Vertical Bar)

N No right boundary

Position 2: Y Bottom boundary (Underline)

N No bottom boundary

Position 3: Y Top boundary (Overline)

N No top boundary

Position 4: Y Left boundary (Vertical Bar)

N No left boundary

Consideration   BOX is not supported on 3270 non-graphics terminals

CLASS

Description	*Not used.* The classification group where the entity is located.
SCRATCHPAD file	CASE_ELEMENT
Format	1–32 alphanumeric characters

COL

Description	*Required for screens.* The starting horizontal display position of the entity.
SCRATCHPAD file	CASE_DATAFIELDS
Format	1–3 digit number
Options	1–255

COL_DOMAIN

Description	*Required for screens.* The maximum number of horizontal columns for the screen.
SCRATCHPAD file	CASE_DATAVIEW
Format	1–3 digit number
Options	1–255

COLOR

Description	*Optional for screens.* The indicator for the color that the entity is displayed in.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	GRE
Format	3-character alphabetical string
Options	RED Red
	BLU Blue
	GRE Green
	YEL Yellow
	TUR Turquoise
	PIN Pink
	WHI White
Consideration	The default color is used on terminals that don't support the selected color.

COLUMN_TITLE

    Description   *Not used*. The heading used for hardcopy output.

    SCRATCHPAD file   CASE_ELEMENT

    Format   1–60 alphanumeric characters

COUNT

    Description   *Required for files*. The count of the actual number of related detail records on the CASE_TEXTLINE or CASE_DATAFIELD files.

    SCRATCHPAD files   CASE_TEXTHDR, CASE_DATAVIEW

    Format   1–5 digit number

    Options   0–32767

    Consideration   The count must match the actual number of detail records. If COUNT is less than the actual number of records, some detail records will be lost. If COUNT is greater than the actual number of records, the end of file will occur, and no records will be lost.

CURSOR_FIELD

    Description   *Optional for screens*. The indicator for whether the initial cursor position is in the display area for this field.

    SCRATCHPAD files   CASE_ELEMENT, CASE_DATAFIELDS

    Default   N

    Format   N or Y

    Options   Y Position the cursor.

                         N Do not position the cursor.

    Consideration   If more than one field in a screen has Y, the first field in a top to bottom, left to right order contains the initial cursor.

DATE_CHANGED

Description	*Required for all entities*. The date when the entity was last modified.
SCRATCHPAD files	CASE_TEXTHDR, CASE_DATAVIEW
Format	YYYY/MM/DD; 10 alphanumeric characters (including the slashes)
Options	User specified
Consideration	Slashes must be inserted.

DECIMALS

Description	*Optional for screens, files*. The number of digits to the right of the decimal point.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	0
Format	1–3 digit number
Options	0–255

DEFAULT_DIS

Description	*Optional for screens*. The indicator for whether the entity is displayed with its DEFAULT_VALUE.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	N
Format	N or Y
Options	Y Display default value.
	N Do not display default value.

DEFAULT_VALUE

Description	*Optional for screens*. The entity default value as defined on the metadata dictionary.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	NULL
Format	1–60 alphanumeric characters
Options	User specified

DEPENDENT

Description	*Optional for external files*. The name of the first occurring element (in an external file view profile) that is written to the CASE_DATAFIELDS file. For example:

```
            |    First Occurrence   |    Second Occurrence   |
|FIELD A|FIELD B|FIELD X|FIELD Y|FIELD Z|FIELD X|FIELD Y|FIELD Z|
```

	Fields X, Y and Z occur as a group two times, and since Field X occurs first in the group, DEPENDENT = Field X.
SCRATCHPAD file	CASE_DATAVIEW
Default	NULL
Format	1–16 alphanumeric characters
Options	User specified
Consideration	DEPENDENT references the field RULER, and is only valid for VSAM KSDS files.ext.

DERIVED

Description	*Not used*. The indicator for whether the entity value is derived from other entities.
SCRATCHPAD file	CASE_ELEMENT
Format	Any single alphanumeric character

DESCRIPTION

Description	*Optional for all entities.* The narrative defining the entity's function and usage.
SCRATCHPAD files	CASE_TEXTHDR, CASE_ELEMENT, CASE_DATAVIEW
Default	NULL
Format	1–80 characters (for CASE_TEXTHDR); 1–60 characters (for CASE_ELEMENT); 1–64 characters (for CASE_DATAVIEW)
Options	User specified

DETECTABLE

Description	*Optional for screens.* The indicator for whether the entity is displayed in pen-detectable mode.
SCRATCHPAD file	CASE_ELEMENT, CASE_DATAFIELDS
Default	N
Format	N or Y
Options	Y Light pen detectable.
	N Not light pen detectable.

DIM1

Description	*Optional for external files.* The entity's count of repeating horizontal occurrences of the same field. For example:

```
| FIELD X | FIELD X | FIELD X | FIELD X |
| <-            DIM1 = 4            ->
```

There are 4 occurrences of Field X, so DIM1 is 4.

SCRATCHPAD file	CASE_DATAFIELDS
Default	0
Format	1–5 digit number
Options	0–18000; the number of occurrences (DIM1), plus all record field lengths. Must be less than or equal to 18000.

DIM2

Description	*Reserved*
SCRATCHPAD file	CASE_DATAFIELDS

DISPLAY_LENGTH

Description	*Required for screens.* The length of the displayed entity.
SCRATCHPAD files	CASE_DATAFIELDS
Format	1–3 digit number
Options	1–255

EDIT_RULES

Description	*Not used.* The edit criteria for NAME as defined on the metadata dictionary.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Format	1–60 alphanumeric characters

EXTERNAL_LEN

Description	*Required for files.* The entity's maximum length.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Format	1–3 digit number
Options	0–255

EXTERNAL_NAME (TOTAL/PDM File Name)

Description	Specifies the TOTAL or SUPRA PDM file that the file view is referencing.
Format	4-character TOTAL or SUPRA PDM file name
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS

Considerations

◆   The TOTAL file must currently exist in your TOTAL database descriptor module (DBMOD) or SUPRA directory to which MANTIS has access.

◆   Multiple views can reference the same TOTAL/SUPRA PDM file.

EXTERNAL_TYPE

Description	*Required for all entities*. The entity's external datatype as defined on the metadata dictionary. EXTERNAL_TYPE is used to derive MANTIS_TYPE, DECIMALS, and SIGNED.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Format	1 alphabetic character
Options	T Text. (8-bit character string)
	Z Zoned. (1 => HEX 'F1')
	P Packed. (+1 => HEX '1C')
	B Binary. (+1 => HEX '0001')
	F Float. (+1 => HEX '41100000 00000000')
	K Kanji. (double byte)

FIELD_DATA

Description	*Optional for prompters, programs.* The single child text data line for the referenced parent entity.
SCRATCHPAD file	CASE_TEXTLINE
Default	NULL
Format	1–254 alphanumeric characters
Options	User specified.
Consideration	Only one 254 character string per FIELD_DATA may be used.

FIELD_DESC

Description	*Optional for screens, files.* The description of the element's usage within DATAVIEW.
SCRATCHPAD file	CASE_DATAFIELDS
Default	NULL
Format	1–60 alphanumeric characters
Options	User specified

FIELD_NAME

Description	*Required for screens, files.* The name of the datafield or element.
SCRATCHPAD file	CASE_DATAFIELDS
Format	1–32 alphanumeric characters
Options	(A–Z) First character
	(A–Z), (0–9), "_" Remaining characters

FIELD_NUMBER

Description	*Required, key for all entities*. The sequential number that identifies a child detail entity as belonging to a parent entity.
SCRATCHPAD files	CASE_TEXTLINE, CASE_DATAFIELDS
Format	1–5 digit number
Options	0–32767
Consideration	When creating CASE_TEXTLINE or CASE_DATAFIELDS detail records, the first detail record must be 1, the second detail record 2, and so on.

FILE_TYPE

Description	*Required for external files*. The entity's storage method.
SCRATCHPAD file	CASE_DATAVIEW
Format	I, S, N, or D
Options	For Mainframe (OS/390, VSE/ESA):

I   INDEXED. Keyed access.

S   SEQUENTIAL. Sequential access.

N   NUMBERED. Relative record number access.

D   DIRECT. Direct record address access.

For OpenVMS/Unix:

I   INDEXED. Keyed access.

S   SEQUENTIAL. Sequential access.

N   NUMBERED. Relative record number access.

D   DIRECT. Direct record address access.

FILL

Description	*Optional for screens*. The indicator for whether the displayed entity must have its input area completely filled with data.
SCRATCHPAD file	CASE_DATAFIELDS
Default	N
Format	N or Y
Options	Y Entity area must have its input area filled with data.
	N Entity area does not have to have its input area filled with data.

FULL_DISPLAY

Description	*Optional for screens*. The indicator for whether the entire terminal display is used, or the last 2 rows are reserved.
SCRATCHPAD file	CASE_DATAVIEW
Default	N
Format	N or Y
Options	Y Reserve last 2 rows.
	N Use entire terminal display.

H_OFFSET

Description	*Optional for screens*. The length of the field occurrence, plus the number of columns between field occurrences. For example:

```
##########|   |  |##########|   |   |
| 11 pos    |2 pos| 11 pos      |
|   H_OFFSET=13     |
```

If the number of positions between the first field and the second field is 2, and first field is 11 positions, the H_OFFSET is 13.

SCRATCHPAD file	CASE_DATAFIELDS
Default	0
Format	1–3 digit number
Options	0–255.
Consideration	H_REPEAT must be specified.

H_REPEAT

Description	*Optional for screens*. The entity's count of repeating horizontal occurrences of the same field. For example:

```
####|   |  |####|   |  |####|   |  |####|
|<-           H_REPEAT = 4          ->
```

There are four occurrences of Field X, so the H_REPEAT is 4.

SCRATCHPAD file	CASE_DATAFIELDS
Default	0
Format	1–3 digit number
Options	Text. 0–255

HIGHLIGHT

Description	*Optional for screens*. The indicator for whether the entity is displayed in highlighted (bright) mode.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	N
Format	N or Y
Options	Y Highlight.
	N Do not highlight.

HIGH_RANGE

Description	*Optional for screens*. The highest value that may be entered and that the field may contain.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	NULL
Format	1–60 alphanumeric characters
Options	User specified.

INPUT_PIC

Description	*Not used*. The COBOL input picture definition as defined on the metadata dictionary.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Format	1–32 alphanumeric characters

INTENSITY

Description	*Optional for screens.* The indicator for whether the entity is displayed in high or low intensity.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	L
Format	L or H
Options	H High intensity.
	L Low intensity (Normal intensity mode).

LEVELS

Description	*Reserved.*
SCRATCHPAD file	CASE DATAFIELDS

LINKAGE_PATH (TOTAL/PDM variable entry files only)

Description	*Required.* Specifies which linkage path MANTIS will use to retrieve, alter, delete, or insert records in a variable entry file.
Consideration	You are limited to one linkage path access for a particular view of a TOTAL or SUPRA PDM variable entry file in the definition of the view layout.

LONG_DESCRIPT

Description	*Not used.* The narrative explanation of the entity.
SCRATCHPAD file	CASE_ELEMENT
Format	1–72 alphanumeric characters, 5 occurrences

LOW_RANGE

Description	*Optional for screens.* The lowest value that may be entered and that the entity may contain.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	NULL
Format	1–60 alphanumeric characters
Options	User specified.

MDT (Modified Data Tag)

Description	*Optional for screens.* The indicator for whether the entity is displayed in modified mode and used as input in the next screen read.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	N
Format	N or Y
Options	Y Modified data tag set.
	N Modified data tag not set.

MANTIS_TYPE

Description	*Required for all entities.* The MANTIS specific data type as derived from the entity's metadata dictionary external data type.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Format	1 alphabetic character: B, S, T, K or H

Options

External Type	External length	Decimals	MANTIS Type Equivalent
T (TEXT)	LENGTH (1-254)	N/A	T (TEXT)
Z (ZONED)	LENGTH (1-5)	= 0	S (SMALL)
Z (ZONED)	LENGTH (1-16)	> 0	B (BIG)
P (PACKED)	LENGTH (1-4)	<= 7	S (SMALL)
P (PACKED)	LENGTH (1-9)	> 7	B (BIG)
B (BINARY)	LENGTH = 2	= 0	S (SMALL)
B (BINARY)	LENGTH = 2	> 0	B (BIG)
B (BINARY)	LENGTH = 4	Any Value	B (BIG)
F (FLOAT)	LENGTH = 4	N/A	S (SMALL)
F (FLOAT)	LENGTH = 8	N/A	B (BIG)
K (KANJI)	LENGTH (1-127)	N/A	K (KANJI)
H (Screen Header)	LENGTH (1-254)	N/A	H (HEADER)

MASK

Description	*Optional for screens*. The display/hardcopy output format for the entity.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	NULL
Format	1–254 alphanumeric characters
Options	User specified.
Consideration	COBOL characters are converted to MANTIS characters as follows:

COBOL	MANTIS
-	-
$	$
*	*
,	,
.	.
+	+
9	#
A	#
B	|
CR	CR
DB	DB
O	Z
P	#
V	.
X	#
Z	#

NOTE

In COBOL, P's are converted and used to pad fields (e.g., PPP99 => .00099). In MANTIS CASE Connectivity, P's are converted to #'s without respect to the decimal point (e.g., ##### => 00099).

A's and X's are converted only if other special edit characters exist in OUTPUT_PIC clause (e.g., XBXBXXXX => #|#|####). Without the special edit character B, the result would be NULLText.

MAX_LENGTH

Description	*Required only for external files.* For variable length records, MAX_LENGTH is the largest allowable record.
SCRATCHPAD file	CASE_DATAVIEW
Format	1–5 digit number
Options	0–18000
Consideration	The RECORD_TYPE of "V" (VARIABLE) must be specified (see field specifications for RECORD_TYPE).

NAME

Description	*Required, key for all entities.* The entity's identifying label.
SCRATCHPAD file	CASE_TEXTHDR, CASE_ELEMENT, CASE_DATAVIEW
Format	1–32 alphanumeric characters
Options	(A–Z) First character.
	(A–Z), (0–9), "_" Remaining characters.

NEXT_SCREEN

Description	*Optional for prompters.* The continuation screen for MANTIS PROMPTER entities.
SCRATCHPAD file	CASE_TEXTHDR
Default	NULL
Format	1–32 alphanumeric characters
Options	Valid MANTIS PROMPTER name.
Consideration	If NEXT_SCREEN is specified, it must be equivalent to an existing MANTIS PROMPTER entity.

OFFS

Description *Required for files.* The number of positions to the next repeating occurrence in a group of repeating fields. For example:

```
Occurrence 1     | FIELD A, L=2 | FIELD_B, L=3 | FIELD_C, L=5 |
Occurrence 2     | FIELD A, L=2 | FIELD_B, L=3 | FIELD_C, L=5 |
Occurrence 3     | FIELD A, L=2 | FIELD_B, L=3 | FIELD_C, L=5 |
                 |<---   OFFS = Sum of lengths of fields  --->|
```

To go from the first occurrence of Field A to the second occurrence of Field A, the OFFS is 10, since the OFFS is equal to the sum of the lengths of the fields.

SCRATCHPAD file CASE_DATAFIELDS

Format 1–5 digit number

Options 0–18000

Consideration When EXTERNAL_TYPE = T (text), and DIM1 >0 --> OFFS=DIM1, then DIM1 = length of text. When EXTERNAL_TYPE is not T (text), then DIM1 = the number of occurrences.

OUTPUT_PIC

Description *Not used.* The COBOL output picture definition as defined on the metadata dictionary.

SCRATCHPAD files CASE_ELEMENT, CASE_DATAFIELDS

Format 1–32 alphanumeric characters

PASSWORD1

Description	*Optional for files.* The unencrypted password for read access.
SCRATCHPAD files	CASE_TEXTHDR, CASE_DATAVIEW
Default	NULL
Format	1–16 alphanumeric characters
Options	User specified
Consideration	If the PASSWORD1 value is NULL, MANTIS Entity Transformers and CASE_CALLER will leave the password NULL in the generated entity.

PASSWORD2

Description	*Optional for files.* The unencrypted password for update access.
SCRATCHPAD file	CASE_DATAVIEW
Default	NULL
Format	1–16 alphanumeric characters
Options	User specified
Consideration	If the PASSWORD2 value is NULL, MANTIS Entity Transformers and CASE_CALLER will leave the password NULL in the generated entity.

PASSWORD3

Description	*Required for screens, all files.* The unencrypted password for insert/delete.
SCRATCHPAD file	CASE_DATAVIEW
Format	1–16 alphanumeric characters
Options	User specified
Consideration	If PASSWORD3 is not used, the password of the user who performs the entity transformation, or who executes the CASE_CALLER facility will be used in the generated entity.

PROMPT_MSG

Description	*Not used*. The message line that reminds the user of the entity's value specification.
SCRATCHPAD file	CASE_ELEMENT
Format	1–60 alphanumeric characters

PROTECTED

Description	*Optional for screens*. The indicator for whether the entity is displayed in protected mode.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	N
Format	N or Y
Options	Y Protected (output only).
	N Unprotected (output/input).

PROTECT_BOTTOM

Description	*Optional for screens*. The indicator for whether the terminal's application input is allowed from the last row on the terminal.
SCRATCHPAD file	CASE_DATAVIEW
Default	N
Format	N or Y
Options	Y Input is allowed from last row on terminal.
	N Input is not allowed from last row.

RECORD_TYPE

Description	*Required for external files.* The definition of the entity's internal structure type.
SCRATCHPAD file	CASE_DATAVIEW
Default	None
Format	F or V
Values	F (FIXED) => Fixed length record V (VARIABLE) => Variable length record

---

RECORD_CODE (TOTAL/PDM variable entry files only)

Description	*Required.* Specifies the record code you want associated with this TOTAL view.
Considerations	

- ♦ If a code is not specified, MANTIS disregards the record code and retrieves all records associated with the specified linkage path.

- ♦ If a code is specified, MANTIS selects TOTAL or SUPRA PDM records that match the specified record code and disregards all others.

- ♦ During update or insertion, MANTIS enforces the specified record code.

REFERENCE

Description	*Required for non-keyed, external files.* The name of the placeholder area for external device access.
SCRATCHPAD file	CASE_DATAVIEW
Default	NULL
Format	1–16 alphanumeric characters
Options	User specified
Consideration	This field is used only with RECORD_TYPE F and FILE_TYPE S or N.

REFERENCE_VARIABLE (TOTAL/PDM variable entry files only)

Description	Specifies the variable name MANTIS creates when the TOTAL or SUPRA PDM view is processed (via the TOTAL statement).
Consideration	The TOTAL statement will process the created TEXT variable like any other variable defined in the same view. That is, the TEXT variable can have a prefix and multiple buffers.

REQUIRED

Description	*Optional for screens*. The indicator for whether the entity must have a value entered.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	N
Format	N or Y
Options	Y Data is required.
	N Data is not required

REVERSE_VIDEO

Description	*Optional for screens*. The indicator for whether the entity is displayed in reverse video mode.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	N
Format	N or Y
Options	Y Reverse video
	N Not reverse video.
Consideration	REVERSE_VIDEO is not supported on 3270 non-graphics terminals.

ROW

Description	*Required for screens.* The entity's starting vertical display position.
SCRATCHPAD file	CASE_DATAFIELDS
Format	1–3 digit number
Options	1–255

ROW_DOMAIN

Description	*Required for screens.* The maximum number of vertical rows for the screen.
SCRATCHPAD file	CASE_DATAVIEW
Format	1–3 digit number
Options	1–255

RULER

Description   *Optional for external files.* The name of the occurrence controlling element (for external file view profile) of a repeating field (or a repeating group of fields) that currently exists in the record. For example:

```
                |      First Occurrence    |    Second Occurrence    |
        |FIELD A|FIELD B|FIELD X|FIELD Y|FIELD Z|FIELD X|FIELD Y|FIELD Z|
                | RULER |
```

Field B represents the RULER (the occurrence controlling field). There are two occurrences of the repeating Fields X, Y and Z, so RULER contains the occurrence count of 2.

SCRATCHPAD file	CASE_DATAVIEW
Default	NULL
Format	1–16 alphanumeric characters
Options	User specified
Consideration	RULER references the field DEPENDEN, and is only valid for VSAM KSDS files.

SHORT_TITLE

Description	*Not used*. The entity's standard compressed heading for display or hardcopy output.
SCRATCHPAD file	CASE_ELEMENT
Format	1–15 alphanumeric characters

SIGNED

Description	*Optional for screens, files*. The indicator for whether the entity is signed positive(+) or negative (-).
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	NULL
Format	NULL or Y
Options	NULL Unsigned.
	Y Signed.

SOUND_ALARM

Description	*Optional for screens*. The indicator for whether the terminal output alarm will sound.
SCRATCHPAD file	CASE_DATAVIEW
Default	N
Format	N or Y
Options	Y Sound alarm.
	N Do not sound alarm.

SOURCE

Description	*Required for all entities*. The reference where the entity definition originated.
SCRATCHPAD file	CASE_ELEMENT
Format	1–32 alphanumeric characters
Options	User specified

SOURCE_ENTITY

Description	*Required for all entities*. The reference where the entity definition originated.
SCRATCHPAD files	CASE_TEXTHDR, CASE_DATAVIEW
Format	1–16 alphanumeric characters
Options	User specified

START

Description	*Required for files*. The entity's starting position within a data view structure.
SCRATCHPAD file	CASE_DATAFIELDS
Format	1–5 digit number
Options	0–18000

STATUS

Description	*Required for all files*. The state of entity usage.
SCRATCHPAD file	CASE_DATAVIEW
Format	1–16 alphanumeric characters
Options	Active Accessible MANTIS file
	Inactive Inaccessible MANTIS file

TIME_CHANGED

Description	*Required for all entities*. The time when the entity was last modified.
SCRATCHPAD files	ASE_TEXTHDR, CASE_DATAVIEW
Format	HH:MM:SS; 8-alphanumeric characters (including the colons)
Options	User specified
Consideration	Colons must be inserted

TITLE

Description	*Optional for screens*. The entity's default display title/heading.
SCRATCHPAD file	ASE_DATAFIELDS
Default	NULL
Format	1–80 alphanumeric characters
Options	User specified.

TUPLE

Description	*Reserved*.
SCRATCHPAD file	CASE_DATAVIEW

UNDERLINE

Description	*Optional for screens*. The indicator for whether the entity is displayed with an underline.
SCRATCHPAD files	CASE_ELEMENT, CASE_DATAFIELDS
Default	N
Format	N or Y
Options	Y Display with underline.
	N Display without underline.

V_OFFSET

Description	*Optional for screens.* The number of rows between each vertically repeating field occurrence. For example:

```
#################################
|
|
#################################
```

If the first occurrence of a repeating field is on row 1 of a screen, and the next occurrence of the field is on row 4, the V_OFFSET will be 2, since there are two blank rows between each occurrence of the fields.

SCRATCHPAD file	CASE_DATAFIELDS
Default	0
Format	1–3 digit number
Options	0–255

V_REPEAT

Description	*Optional for screens.* The entity's count of repeating vertical occurrences of the same field. For example:

```
#################################
|
#################################
|
#################################
```

There are 3 occurrences of this field, so the V_REPEAT is 3.

SCRATCHPAD file	CASE_DATAFIELDS
Default	0
Format	1–3 digit number
Options	0–255

VIEW_NAME

Description	Required, key for all entities. The name of the parent entity that owns the child entity.
SCRATCHPAD files	CASE TEXTLINE, CASE DATAFIELDS
Format	1–28 alphanumeric characters
Options	(A–Z) First character.
	(A–Z), (0–9), " " Contain characters.
Consideration	VIEW NAME uses only 28 characters of NAME

B

Deriving MANTIS data items from CASE scratchpad element items

This appendix contains four MANTIS/CASE tables, each describing how a specific MANTIS data item is derived from CASE scratchpad element items. These data items include MANTIS internal files, external files, interface data items, and screen data items.

The tables in this appendix are structured to help you with:

♦ Planning functions, to determine what you should enter for proper translation

♦ Verifying functions, to ensure you receive information in the format you expect

♦ Correcting functions, to clarify errors when the information you receive does not match what you expected

As you refer to these tables, keep the following points in mind:

♦ For items where more than one option is listed, the comma (,) is equivalent to the word "or," and the hyphen (-) is equivalent to the word "through."

♦ For items where the field is not provided, there is no corresponding field.

♦ For items where no edit rules are specified, the data is taken as-is.

Deriving MANTIS internal files from CASE scratchpad element items

CASE scratchpad	MANTIS data item	Edit rules
Name	Name	Truncate to 16
Description	Description	If null = "<name> FILE"
Password1	View level	
Password2	Put level	
Password3	Insert level	If all 3 passwords null: = (current sign-on password)
	Status	"ACTIVE"
	Calendar	=system date
	Clock	=system time
	Count	Derived (sum of fields)
	Bytes	0 (zero)
Field name	Field name	Valid MANTIS name
External type	MANTIS type	Refer to C.1.1
Attribute	KEY	(K), If type = "C": = ""
Attribute	Scramble	(S), If type = "C": = ""
	Row dimension	0
	Column dimension	0

Deriving MANTIS external files from CASE scratchpad element items

CASE scratchpad	MANTIS data item	Edit rules
Name	Name	Truncate to 16
Description	Description	If null = "<name> External File"
Password1	View level	
Password2	Put level	
Password3	Insert level	If all 3 passwords null = (current sign-on password)
Status	Status	"ACTIVE"
	Calendar	= system date
	Clock	= system time
	Count>	0, <=160
	Key length	Calculated from field data
	External name	<Name>
	File type	Indexed, Sequential, Numbered, Basic, or Direct
	Record type	V or F, (V not allowed for TYPE "N")
	Max length	>0, <=18000
	Reference	Required for TYPE "S" or "N", not allowed for TYPE "I"
	Ruler	Required if DEPENDENT present, null if TYPE "F", must be numeric and unsubscripted
	Dependent	Required if RULER present must come after RULER

CASE scratchpad	MANTIS data item	Edit rules
Field name	Field name	Valid MANTIS name
MANTIS type	MANTIS type	
External type	External type	
Attribute	Key/Scramble	(K,S)
Signed	Signed	(Y)
	Dim1	<=255
		If MANTIS type = (T,K):= Dim1, else = Dim2
Length	Length	<=254
Decimals	Decimals	
Start	Start	>=1, <=Maxrec1
		Start = Start(n-1) + field length(n-1) * Dim(n-1)

Deriving MANTIS interface files from CASE scratchpad element items

CASE scratchpad	MANTIS data item	Edit rules
Name	Name	Truncate to 16
Description	Description	If null = "<Name> Interface" Truncate to 60, append "VA.2", date, and time
Password1	Clearance	
External name	Progcall	If null = <Name>
	Count	>0, <=160
Status	Status	
Tuple	Layout	
Field name	Field name	Valid MANTIS name
MANTIS type	MANTIS type	
External type	External type	
Single level	Single level	(S)
Signed	Signed	(Y)
Length	Length	>=1, <=254
	Dim1	>=1, <=255 If MANTIS type = (T,K):= Length else =Dim1
Decimals	Decimals	
Start	Start	Start = Start(n-1) + field length(n-1) * Dim(n-1)
Offset	Offset	If Dim=1: Offset=0 If Dim>1 and Offset<Length Offset=Length

Deriving MANTIS screen data items from CASE scratchpad element items

CASE scratchpad	MANTIS screen data item
Name	Name
Password1	Clearance
Description	Description: (truncates to 48 + system date and time)
Row domain	Row domain
Col domain	Col domain
Sound alarm	Sound alarm
Full display	Full display
Bottom lines	Bottom lines
Row	Row - 1
Column	Column - 1
MANTIS type	MANTIS type (B,S)->N, If Ext. type = (ZPBF) = N
Field name	Field name
Mask	Mask
Length	Length
V Repeat	V Repeat
H Repeat	H Repeat
V Offset	V Offset
H Offset	H Offset
Color	Color
MDT	Modified tag
Reverse video	Reverse video
Blink	Blinking
Detectable	Detectable
Translate to box (3) right border	Box: R
Translate to box (1) top border	Box: O

CASE scratchpad	MANTIS screen data item
Translate to box (4) left border	Box: L
Translate to box (2) bottom border	Box: U
Protected	Protected
Cursor field	Cursor
Highlight	Highlight
Intensity	Intensity
Autoskip	Autoskip
Default present	If Default value not null = Y
Low range present	If Low range not null = Y
High range present	If High range not null = Y
Required	
Fill	
Default display	
Default value	Default value
Low range	Low range
High range	High range

(*) If row and column domain are zero, a screen is synthesized.

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